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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/935,557	08/22/2001	Erik Gunther	GUNE117293	8854
26389 7	7590 10/06/2004		EXAMINER	
CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC 1420 FIFTH AVENUE SUITE 2800			MARSCHEL, ARDIN H	
			ART UNIT	PAPER NUMBER
SEATTLE, W	SEATTLE, WA 98101-2347			

DATE MAILED: 10/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
		09/935,557	GUNTHER, ERIK		
	Office Action Summary	Examiner	Art Unit		
		Ardin Marschel	1631		
Period fo	The MAILING DATE of this communication	n appears on the cover sheet w	vith the correspondence address		
I HE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION in sions of time may be available under the provisions of 37 CI SIX (6) MONTHS from the mailing date of this communication is period for reply specified above is less than thirty (30) days, of period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MOI	reply be timely filed  rty (30) days will be considered timely.  NTHS from the mailing date of this communication.		
Status	,				
1)	Responsive to communication(s) filed on 2	12 July 2004			
	This action is <b>FINAL</b> . 2b) This action is non-final.				
3)	Since this application is in condition for all		ters, prosecution as to the merits is		
	closed in accordance with the practice und	ler <i>Ex parte Quayl</i> e, 1935 C.[	D. 11, 453 O.G. 213.		
Dispositi	on of Claims				
	Claim(s) 1-37 is/are pending in the applica	tion			
	4a) Of the above claim(s) <u>5,12-17 and 22-3</u>		ideration		
	Claim(s) is/are allowed.	oraro waratawii iioiii oojisi	deration.		
	Claim(s) <u>1-4,6-11,18-21,&amp; 32-37</u> is/are reje	ected.			
	Claim(s) is/are objected to.				
	Claim(s) 1-37 are subject to restriction and	d/or election requirement.			
Application	on Papers				
9)[] -	Γhe specification is objected to by the Exan	ainor			
	The drawing(s) filed on is/are: a)		by the Evenines		
,,,,	Applicant may not request that any objection to	the drawing(s) he hold in above	by the Examiner.		
	Replacement drawing sheet(s) including the cor				
11)[] 7	The oath or declaration is objected to by the	Examiner. Note the attached	(S) is objected to. See 37 CFR 1.121(d).		
	nder 35 U.S.C. § 119	Thorough and attached	of the Action of John F10-192.		
	•	ian priority and a 25 LLO C. O			
	Acknowledgment is made of a claim for fore ☐ All b)	agir priority under 35 U.S.C. §	119(a)-(d) or (f).		
,_	1. ☐ Certified copies of the priority docum	ents have been received			
2	2. Certified copies of the priority docum		onlication No		
	B. Copies of the certified copies of the p	riority documents have been	received in this National Store		
	application from the International Bur	eau (PCT Rule 17 2(a))	received in this National Stage		
* Se	ee the attached detailed Office action for a		received.		
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Anakaa **					
tachment(		K-7			
Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔀 Interview St	ummary (PTO-413) /Mail Date.		
Informa	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/		formal Patent Application (PTO-152)		
	No(s)/Mail Date				

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#### **DETAILED ACTION**

Applicant's arguments, filed 7/12/04, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

### INTERVIEW SUMMARY NOT AGREED WITH

On 7/12/04, applicant has submitted an Interview Summary for the Interview held by telephone on 7/1/04. Applicant's Interview Summary indicates that an agreement was reached that Daniel et al. does not disclosure step (c) of the invention of claim 1. This is not agreed with. The Interview of 7/1/04 included a discussion and concern that Daniel et al. may not disclose said step (c) but that the Examiner wished to review Daniel et al. on this point after formal arguments directed to this has been submitted. No agreement as to step (c) was reached at the time of the Interview. This issue and discussion is also reflected in the attached Exr. Int. Summary for 7/1/04 and also indicates that agreement was not reached and that further review of Daniel et al. was desired by the Examiner. The last statement of applicant's interview summary is that two figures would be submitted. This last statement is agreed with as being discussed during said Interview. It is noted that reconsideration of Daniel et al. is described below.

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#### **ABSTRACT**

The abstract of the disclosure is objected to because it exceeds 150 words. A shortened abstract on its own separate sheet of paper is required. Correction is required. See MPEP § 608.01(b).

## **VAGUENESS AND INDEFINITENESS**

Claims 1-4, 6-11, 18-21, and 32-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, lines 1-2, the method is directed to discovering compounds with expression profile-altering activity. This contrasts with the steps in instant claim 1 wherein the analyte(s) therein analyzed are identified as being of the type which induces a third expression profile more similar to the first than second profile. Thus, the actual claim steps specifically are not directed to discovering compounds which simply alter an expression profile but rather actually alter it to be more similar to a first profile. Thus, the preamble of claim 1 has a different goal than the actual claim steps. This causes the claim to be vague and indefinite as to whether the preamble requires additional step(s) regarding simple profile altering compounds or whether the metes and bounds of the claim are limited to the actual step (d) practice. This unclarity is also present in claim 32. Clarification via clearer claim wording is requested. Claims which depend directly or indirectly from claim 1 or 32 also contain this unclarity due to their dependence.

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#### **PRIOR ART**

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 6-9, 18-21, 32, and 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daniel et al. (P/N 6,368,794).

Reconsideration of Daniel et al. reveals that the reference does, in fact, contain a description of step (c) of instant claim 1 in general terms which contains an easily discerned suggestion that is specifically directed to the practice of step (c) of instant claim 1.

To summarize the description of the instant invention in Daniel et al., firstly steps (a) and (b) of instant claim 1 are hereby pointed to in column 10, lines 5-67. In column 10, lines 5-20, the determining of gene expression profiles wherein differing levels of expression are detected and quantitated is set forth. In column 10, lines 54-67, hybridization complexes are described for such determinations wherein a standard value (first expression profile of step a) of instant claim 1) for each signal is discussed which is altered compared to said standard in a disease state which is the second sample profiling practice of step b) of instant claim 1. Column 10, lines 64-67, begins a discussion of utilizing such assays for evaluating the efficacy of a therapeutic regimen. In column 11, lines 1-7, this evaluation practice is clarified in that a treatment protocol is initiated and hybridization assays are repeated to "determine if the level of expression in

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the patient begins to approximate that which is observed in a healthy subject". Such comparisons are also reasonably a difference profile determination as in instant claim 2. Such repeated assays of expression levels after treatment is reasonably step (c) of instant claim 1 when considered in view of what is meant in Daniel et al. regarding treatment. Daniel et al. goes on to state that the results may be used to show the efficacy of treatment over time. The approximation of assay level outcome to a healthy subject is reasonably interpreted as accurately suggesting and motivating step (d) of claim 1 wherein efficacy of treatment causes the expression level to return to the first profile of a healthy subject. Daniel et al. describes what is meant therein for treatment as several citations including column 2, line 65, through column 3, line 5, which is clearly an analyte as instantly utilized in step (c) of instant claim 1. In column 5, lines 27-42, the sequences that may be selected for pharmaceutical compositions are first selected from differentially expressed genes in cancerous or precancerous tissue and thus are uncharacterized at that point as to whether they have any specific pharmacological activity as also a limitation in instant claim 1, step (c). Thus the practice of instant claim 1 is clearly suggested and motivated in Daniel et al. as also inclusive of the Key step shown in applicant's argued Figure depicting the Gunther invention, filed 7/12/04.

Thus, it would have been obvious to someone of ordinary skill in the art at the time of the instant invention to perform the gene expression hybridization assays of Daniel et al. on sequences therein described for healthy as well as diseased subjects and then, following treatment, reassay and compare the expression profiles to

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determine if a healthy type profile has resulted which is the step (d) of instant claim 1 thus resulting in the practice of the instant invention with a reasonable expectation of success. The microarray analysis of instant claim 9 is described at several citations in Daniel et al., for example, in column 5, lines 4-26.

No claim is allowed.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (571) 272-0718. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (571) 272-0722.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (571) 272-0549.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

September 30, 2004